IN THE CLAIMS

The following listing of the claims is provided in accordance with 37 C.F.R. 1.121:

(currently amended) A Pelton turbine system comprising:

 a runner mounted for rotation and configured to drive a generator;
 a distributor for directing a flow of water to the runner;
 at least one high efficiency injector assembly comprising a high efficiency valve

 spherical valve configured to provide the flow of water from the distributor to the runner;
 and

at least one needle valve injector assembly comprising a needle valve for regulating the overall flow of water from the distributor to the runner.

- 2. (canceled).
- 3. (currently amended) The system of claim 1, wherein the at least one high efficiency injector assembly comprises a spherical valve is configured either to provide a fully open flow path between the distributor and the runner in a fully opened position or to fully close the flow path between the runner and the distributor in a closed position.
- 4. (original) The system of claim 1, wherein the at least one high efficiency injector assembly and the at least one needle valve injector assembly are alternately disposed in the distributor.
- 5. (original) The system of claim 1, wherein a number of needle valve injector assemblies and a number of high efficiency injector assemblies are selected based upon power requirements of the Pelton turbine and a range of flow between the distributor and the runner.

- 6. (original) The system of claim 1, further comprising at least two high efficiency injector assemblies having identical sizes.
- 7. (original) The system of claim 1, wherein a flow rate of the at least one needle valve injector assembly is different from a flow rate of the at least one high efficiency injector assembly.
- 8. (original) The system of claim 1, wherein an effective cross-sectional flow area of the at least one needle valve injector assembly is smaller than an effective cross-sectional flow area of the at least one high efficiency injector assembly.
- 9. (original) The system of claim 1, comprising a control circuit configured to automatically operate the high efficiency injector assembly to provide a fully open flow path between the distributor and the runner in a fully opened position or to fully close the flow path between the runner and the distributor in a closed position.
- 10. (original) The system of claim 9, wherein the control circuit includes an appropriately programmed microprocessor.
- 11. (original) A Pelton turbine system comprising:
 a runner mounted for rotation and configured to drive a generator;
 a distributor for directing a flow of water to the runner;
 at least one needle valve injector assembly comprising a needle valve for regulating the flow of water from the distributor to the runner; and

at least one high efficiency injector assembly comprising a spherical valve configured either to provide a fully open flow path between the distributor and the runner in a fully opened position or to fully close the flow path in a closed position.

- 12. (original) The system of claim 11, wherein the at least one high efficiency injector assembly and the at least one needle valve injector assembly are alternately disposed in the distributor.
- 13. (original) The system of claim 11, wherein a number of needle valve injector assemblies and a number of high efficiency injector assemblies are selected based upon power requirements of the Pelton turbine and a range of flow between the distributor and the runner.
- 14. (original) The system of claim 11, further comprising at least two high efficiency injector assemblies having identical sizes.
- 15. (original) The system of claim 11, wherein a flow path of the at least one needle valve injector assembly is different from a flow path of the at least one high efficiency injector assembly.
- 16. (original) The system of claim 11, further comprising a control circuit configured to execute a control to automatically operate the high efficiency injector assembly to provide a fully open flow path between the distributor and the runner in a fully opened position or to fully close the flow path between the runner and the distributor in a closed position.
- 17. (original) The system of claim 16, wherein the control circuit includes an appropriately programmed microprocessor.
 - 18. (canceled).

19. (currently amended) A method for operating a Pelton turbine, the method comprising:

opening a needle valve of a needle valve injector assembly and a valve of a high efficiency injector assembly to a direct flow of water from a distributor to a runner; and controlling the needle valve of the needle valve injector assembly to regulate a desired flow of water from the distributor to the runner;

wherein the Pelton turbine comprises at least two needle valve injector assemblies alternately disposed with at least two high efficiency injector assemblies to provide a modulated flow of water from the needle valve injector assemblies.

- 20. (currently amended) The method of claim 19, further comprising controlling the high efficiency injector <u>assembly assemblies</u> and the needle valve injector <u>assembly assemblies</u> to provide the desired flow of water to from the distributor to the runner.
- 21. (currently amended) A method for operating a Pelton turbine, the method comprising:

substantially simultaneously regulating flow through a needle valve of a needle valve injector assembly and a high efficiency valve of a high efficiency injector assembly to direct a flow of water from a distributor to a runner; and

controlling the needle valve injector assembly to provide a desired flow from the distributor to the runner;

wherein the Pelton turbine comprises at least two needle valve injector assemblies alternately disposed with at least two high efficiency injector assemblies to provide a modulated flow of water from the needle valve injector assemblies.

- 22. (currently amended) The method of claim 21, further comprising automatically operating the high efficiency injector assembly assemblies to provide a fully open flow path between the distributor and the runner in a fully opened position or to fully close the flow path between the runner and the distributor in a closed position.
- 23. (currently amended) The method for configuring a Pelton turbine comprising:

disposing at least [[one]]two needle valve injector assembly assemblies between a distributor and a runner of a Pelton turbine to direct flow from the distributor to a runner; and

disposing at least [[one]]two high efficiency injector assembly assemblies between the distributor and the runner to direct a portion of overall flow of water from the distributor to the runner;

wherein the pelton turbine comprises at least two needle valve injector assemblies alternately disposed with at least two high efficiency injector assemblies.

- 24. (currently amended) The method of claim 23, wherein the at least [[one]]two high efficiency injector assembly assemblies and the at least [[one]]two needle valve injector assembly assemblies are alternately disposed in the distributor.
- 25. (currently amended) The method of claim 23, wherein a number of at least two needle valve injector assemblies and a number of at least two high efficiency injector assemblies are selected based upon power requirements of the Pelton turbine and a range of flow between the distributor and the runner.
- 26. (currently amended) The method of claim 23, further comprising wherein the at least two high efficiency injector assemblies having have identical sizes.

27. (currently amended) A method for operating a Pelton turbine comprising: removing at least [[one]]two needle valve injector assembly assemblies from a Pelton turbine between a distributor and a runner of a Pelton turbine to leave at least [[one]]two other needle valve injector assembly assemblies to direct flow from the distributor to the runner; and

disposing at least [[one]]two high efficiency injector assembly assemblies between the distributor and the runner in place of the removed at least [[one]]two needle valve injector assembly assemblies to direct a portion of overall flow from the distributor to the runner;

wherein the at least two high efficiency injector assemblies and the at least two needle valve injector assemblies are alternately disposed in the distributor.

- 28. (canceled).
- 29. (currently amended) The method of claim 27, wherein a number of at least two needle valve injector assemblies and a number of at least two high efficiency injector assemblies are selected based upon power requirements of the Pelton turbine and a range of flow of water between the distributor and the runner.
 - 30. (new) A Pelton turbine system comprising: a runner mounted for rotation and configured to drive a generator; a distributor for directing a flow of water to the runner;

at least two high efficiency injector assemblies, each comprising a spherical valve configured to provide the flow of water from the distributor to the runner; and

at least two needle valve injector assemblies, each comprising a needle valve for regulating the overall flow of water from the distributor to the runner;

wherein the at least two high efficiency injector assemblies and the at least two needle valve injector assemblies are alternately disposed in the distributor.